## Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

## San Joaquin River Basin

RD0404	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0404 Boggs	U	4.12						
	U				1		Design 8	System
Rated Item		1	nce Deficiancy			ement	Obsole	scence
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee Vegetation	0.05		0.05	1.21%				
Trim / Thin Trees	0.05	0.07	0.05	9.22%				
Encroachments	0.10	0.07	0.38	1.94%	0.07	0.01		
Animal Control	0.08		0.08	3.16%	0.07	0.01		
Slope Stability	0.01	0.04	0.01	0.24%				
Erosion / Bank Caving	0.02	0.01	0.06	1.46%				
Crown Surface / Depressions / Rutting	1.75		1.75	42.48%				
Riprap Revetments	0.02		0.02	0.49%				
Operations & Maintenance Manuals	0.04		0.04	0.97%				
Flood Preparedness & Training	0.04		0.04	0.97%				
Supplemental DND Fracian Survey	I	0.10	0.40	9.71%			1	
DWR Erosion Survey		0.10	0.40	9.71%	0.23	0.06		
DWR UCIP Field Study	2.24	0.40	2.00	74.040/			0.00	0.00
LMA Totals:	2.24	0.18	2.96	71.84%	0.30	0.07	0.00	0.00
Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
RD0404	U	2.36						
		Maintena	nce Deficiancy		Enforc	ement	Design & System Obsolescence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.05		0.05	2.12%				
Trim / Thin Trees	0.07		0.07	2.97%				
Encroachments	0.03		0.03	1.27%		0.01		
Animal Control	0.11		0.11	4.66%				
Slope Stability	0.01		0.01	0.42%				
Erosion / Bank Caving		0.01	0.04	1.69%				
Riprap Revetments	0.02		0.02	0.85%				
Supplemental		1						
DWR Erosion Survey		0.10	0.40	16.95%				
DWR UCIP Field Study					0.13	0.05		
Unit Totals:	0.29	0.11	0.73	30.93%	0.13	0.06	0.00	0.00

## Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

### San Joaquin River Basin (cont.)

Unit No. 02 French Camp Slough RB	Overall Unit Rating	Total Unit Miles						
RD0404	U	1.76						
Rated Item		Maintena	nce Deficiancy		Enforc	ement	Design & System Obsolescence	
Nateu Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Trim / Thin Trees	0.03	0.07	0.31	17.61%				
Encroachments	0.05		0.05	2.84%	0.07			
Animal Control	0.02		0.02	1.14%				
Erosion / Bank Caving	0.02		0.02	1.14%				
Crown Surface / Depressions / Rutting	1.75		1.75	99.43%				
Supplemental								
DWR UCIP Field Study					0.10	0.01		
Unit Totals:	1.87	0.07	2.15	122.16%	0.17	0.01	0.00	0.00

## **LMA District Cover Sheet**

### Fall 2013 Levee Inspection Results

# **Reclamation District No. 0404 Boggs**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)							
* Overall LMA Rating (Fall Only)			U								
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating							
* <u>SPRING INSPECTIONS:</u> Overall maintenance deficiencies are rated		nined for the spring ins ria in the spring and in		lual maintenance							
FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.											
Comments											

### **Unit Cover Sheet**

### Fall 2013 Levee Inspection Results

## Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Right	2.36

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/10/2013 - 04/10/2013		09/18/2013 - 09/18/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Bob Winter KSN		Bob Winter KSN	

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Category   Item									00/10/2010	······oug.	,
1   0.00   0.00   Earthen   Cereations & Maintenance   WS M Maintenance   Maintenanc	LMR N			Category	Item	Location*	Ratin	Action/Comment			No.
2   0.00   0.00   Earthen   Evere   Equipment   Equi					Maintenance	WS	М		0	0	24
4 0.21 0.26 Supplemental DWR Erosion Survey  WS M Preparedness & Training  WS U Inspector Comments: 08/13/2013: The boat survey found the erosion has progressed significantly in size and in number of pocket erosions. 08/07/2012: The site has been visited by boat survey. The erosion has developed in size, and more pocket erosions were found. 8/23/2011: Pockets erosions observed by last survey seem to have progressed during the last flood season. Continuous monitoring of this site suggested 9/07/2010: No significant change observed on site. There is emergent vegetation at the water line. Several pocket erosions included by 09/07/2019: No major change observed on site. There is emergent vegetation at the water line. Several pocket erosion sined along the lower slope that stretches from RM 40.86 to RM 41.14. 9/30/2009: No major change observed; the site was combined with other existing sites are RM's 40.93, 40.98, and 41.14 as one site; several pocket erosion just above non-uniform toe rip rap, previously rated "U"; bare spots along the upper slope. 2008: Possibly caused by wave wash erosion; several pocket erosion along the lower slope; site is inside of a bend. 2006: Visited site 09/12/06. [2013 Site ID:RD0404U01RM40.86]  DWR.ID:  5 0.25 0.25 Supplemental DWR UCIP Field Study  M Inspector Comments: FS_ID:12443 EP_NO: NA Repair Type: Non-Urgent Crossing Status: indicator Found UCIP Comments: FIELD_STRUCT_DESC: 42-inch CMP, Flapgate on WS. The structure is 10 feet below levee crown O&M #: SJR 001 FS Date: 03/26/2013	2	0.00	0.00		Supplies &				0	0	25
Survey  the erosion has progressed significantly in size and in number of pocket erosions.  08/07/2012: The site has been visited by boat survey. The erosion has developed in size, and more pocket erosions were found.  8/23/2011: Pockets erosions observed by last survey seem to have progressed during the last flood season. Continuous monitoring of this site suggested  9/07/2010: No significant change observed on site. There is emergent vegetation at the water line. Several pocket erosions lined along the lower slope that stretches from RM 40.86 to RM 41.14.  9/30/2009: No major change observed; the site was combined with other existing sites are RM's 40.93, 40.98, and 41.14 as one site; several pocket erosion just above non-uniform toe rip rap; previously rated "U"; bare spots along the upper slope.  2008: Possibly caused by wave wash erosion; several pocket erosion along the lower slope; site is inside of a bend.  2006: Visited site 09/12/06. [2013 Site ID:RD0404U01RM40.86]  WS M Inspector Comments: FS_ID:12443  EP_NO: N/A  Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: FIELD_STRUCT_DESC: 42-inch CMP, Flapgate on WS. The structure is 10 feet below levee crown O&M #: SJR 001 FS Date: 03/26/2013	3	0.00	0.00		Preparedness &				٥	0	26
5 0.25 O.25 Supplemental DWR UCIP Field Study  WS M Inspector Comments: FS_ID:12443 37.939419 ° 37.939419 ° 2 -121.342522 ° -121.34252 ° -121.34252	4	0.21	0.26	Supplemental				the erosion has progressed significantly in size and in number of pocket erosions. 08/07/2012: The site has been visited by boat survey. The erosion has developed in size, and more pocket erosions were found. 8/23/2011: Pockets erosions observed by last survey seem to have progressed during the last flood season. Continuous monitoring of this site suggested 9/07/2010: No significant change observed on site. There is emergent vegetation at the water line. Several pocket erosions lined along the lower slope that stretches from RM 40.86 to RM 41.14. 9/30/2009: No major change observed; the site was combined with other existing sites are RM's 40.93, 40.98, and 41.14 as one site; several pocket erosion just above non-uniform toe rip rap; previously rated "U"; bare spots along the upper slope. 2008: Possibly caused by wave wash erosion; several pocket erosion along the lower slope; site is inside of a bend.	-121.342730° -12		1 Y
6 0.30 0.30 Earthen Erosion / Bank WS U E1 : Note and monitor erosion site. 37.939420 ° 37.939420 ° 10	5	0.25	0.25	Supplemental		WS		EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: FIELD_STRUCT_DESC: 42-inch CMP, Flapgate on WS. The structure is 10 feet below levee crown O&M #: SJR 001	37.939419° 3 -121.342522° -12	21.342522°	27
Levee Caving Ma Inspector Comments: Erosion appears to have increase in -121.341643 ° -121.341643 ° Y size.  DWR ID: DWR_RD0404_01_s_2012_105	6	0.30	0.30				_	Inspector Comments: Erosion appears to have increase in	-121.341643 ° -12	21.341643°	Y

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

					•				09/10/2010	vvilloug	ПОУ
LMR No.	Levee		Category	Item	Rating  ** +  Location  **	Action/Comment				e/Longitude	Issue No. Photo
7	Start 0.34	0.34	Supplemental	DWR Erosion Survey	WS U Ma	Inspector Comments: 08/13/2013: The plocated at immediately upstream of a sm [2013 Site ID:RD0404U01RM40.98]			37.939228 ° -121.340786 ° -	End 37.939228 ° -121.340786 °	18 Y
8	0.44	0.44	Earthen Levee	Animal Control	CR M Ma	A3: No rodents visible, but rodent burrow backfill and compact or grout burrows. Inspector Comments: One large rodent h levee crown and several rodent holes als area. District grouted hole, but holes was	nole locate	ed on d in this	37.939635 ° -121.339063 °	37.939635 ° -121.339063 °	5 Y
9	0.45	0.45	Earthen Levee	Vegetation	WS M Ma	V2: Remove the wild growth other than refrom the levee slopes. Inspector Comments: Remove bamboo of Bamboo is not within twenty feet zone, but removed to stop from spreading along we Bamboo has increased is size.	on waters ut should	side toe. I be	37.939627 ° -121.338808 °	37.939627 ° -121.338808 °	104 Y
10	0.48	0.48	Supplemental	DWR Erosion Survey	WS U Ma	Inspector Comments: 08/13/2013: No signat this site. 8/7/2012: The erosion is next to a repaire approximately 400 feet downstream of a are broken concretes at the upper levee visible at the levee toe or lower slope. Like concrete blocks have been washed away ID:RD0404U01RM41.11]	ed site ar river ber slope, bu	nd nd. There ut not protection		37.939190 ° -121.338280 °	
11	0.49	0.49	Supplemental	I DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:11444 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2. Two 36- metal drainage pipe. One pipe has broke FS Date: 03/26/2013			37.939640 ° -121.338175 ° -	37.939640 ° -121.338175 °	
12	0.49	0.49	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:11443 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2. Two 36- metal drainage pipe. One pipe has broke FS Date: 03/26/2013		0	37.939640 ° -121.338175 °	37.939640 °	29 Y

\* Location LS: Land Side WS : Water Side CR : Crown Rating

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+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

				Offici	NO. UT 36	אנו אנ	Jay	uin River	Rigit	2.30	09/18/2013	8 Willoug	ghby
LMR No.	Levee		Category		Item	Location	Rating	Action/Comment				le/Longitude	Issue No. Photo
13	0.49	0.49	Supplemental	DWR Field		WS		Inspector Comments: FS_ID:12404 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2. Two 36- metal drainage pipes. One pipe has brok FS Date: 03/26/2013		ıgated	Start 37.939640 ° -121.338175 °	End 37.939640 ° -121.338175 °	30
14	0.49	0.49	Supplemental	DWR Field		WS	U En	Inspector Comments: FS_ID:12403 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2. Two 36- metal drainage pipes. One pipe has brok FS Date: 03/26/2013		ıgated	-121.338175°	37.939640 ° -121.338175 °	
15	0.60	0.62	Supplemental	DWR Surve		WS	U Ma	Inspector Comments: 08/13/2013: No signat this site. 08/07/2012: The site was first discovered inspector in the spring inspection. Levee protected with broken concrete blocks, behave been washed away during high flow ID:RD0404U01RM41.22]	d by levee slope was out those b	s llocks	37.939133 ° -121.336100 °	37.939133 ° -121.336100 °	
16	0.62	0.62	Supplemental	DWR Surve		WS		Inspector Comments: 08/13/2013: Boat site has been repaired. 08/07/2012: The root-ball of a fallen tree from the levee. Immediately action need fallen tree trunk and repair the damage. ID:RD0404U01RM41.23]	removed ed to remo	material ove the	37.938810 ° -121.336170 ° DWR ID:		
17	0.66	0.66	Supplemental	DWR Field		WS		Inspector Comments: FS_ID:11087 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure levee. FIELD_STRUCT_DESC: 2 of 3. 30-inch levee, 22.0 feet below the crown. Water gates. Landward end filled with dirt. Stee on landside of the levee. Middle flap gate right flap gate broken as of 1/24/07. FS Date: 03/26/2013	pipes throward end well intake st	le of the ough with flap ructure	37.938670 ° -121.335397 ° DWR ID: DWR_R	37.938670 ° -121.335397 °	

\* Location LS: Land Side WS : Water Side CR : Crown Rating

A : Acceptable
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U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2013

## Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby
Levee Mile			GPS Latitude/L	ongitude Issue

LMR	Levee	Mile	Catamami	lt	Location	Rating	A abitan/O amana ant	GPS Latitu	de/Longitude	Issue No.
No.	Levee Mile Start End  0.66 0.66 Supplementa	Item	tion	ing +	Action/Comment	Start	End	Photo		
18	0.66	0.66	Supplementa	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:11085 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on LS. FIELD_STRUCT_DESC: 1 of 3. 30-inch CM pipes through levee, 22.0 feet below the crown. Waterward end with damaged flap gates. Steel intake structure on landside. On waterside, middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 03/26/2013		37.938670° -121.335397°	Y
19	0.66	0.66	Supplementa	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:12384 EP_NO: N/A	37.938670 ° -121.335397 °	37.938670 ° -121.335397 °	34

19	0.66	0.66	Supplemental DWR UCIP Field Study	LS	Inspector Comments: FS_ID:12384 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on LS. FIELD_STRUCT_DESC: 1 of 3. 30-inch CM pipes through levee, 22.0 feet below the crown. Waterward end with damaged flap gates. Steel intake structure on landside. On waterside, middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 03/26/2013	37.938670 ° -121.335397 °	37.938670° -121.335397°	34

20	0.66	0.66	Supplemental DWR UCIP	LS	M	Inspector Comments: FS_ID:11086
			Field Study		Fn	EP NO: N/A

Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel intake structure on LS FIELD\_STRUCT\_DESC: 3 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Steel intake structure on landside. Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07.

FS Date: 03/26/2013

DWR ID: DWR\_RD0404\_01\_f \_ 2013\_35 37.938670 ° 37.938670 °

-121.335397 ° -121.335397 °

37.938670° 37.938670°

-121.335397 ° -121.335397 °

21	0.66	0.66	Supplemental DWR UCIP
			Field Study

LS M Inspector Comments: FS\_ID:12383 En EP NO: N/A

> Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Steel in

UCIP Comments: Steel intake structure on LS FIELD\_STRUCT\_DESC: 3 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Steel intake structure on landside. Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07. FS Date: 03/26/2013

DWR ID: DWR\_RD0404\_01\_f \_ 2013\_36

22 0.67 0.67 Earthen Levee

......

Encroachments LS M GA: Garbage

Ma Inspector Comments: Wooden board dumped on landside slope.

37.938583 ° 37.938583 ° 6 -121.335258 ° -121.335258 ° Y

DWR ID: DWR\_RD0404\_01\_s \_ 2013\_6

\* Location

LS: Land Side

WS: Water Side

CR: Crown

Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N : Not Inspected/Rated C : Corrected VW : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

										, <i>j</i>
LMR	Levee	Mile	Category	Item	Location	Rating ** +	Action/Comment	GPS Latitude/	Longitude	Issue No.
No.	Start	End	- anogor,		ion	+ <u>o</u>		Start	End	Photo
23	0.75	0.75	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.937758 ° 3 -121.334149 ° -12 DWR ID: DWR_RD04		Υ
24	0.76	0.76	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:11188 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Tilted headwall on WS. Partially burrie flap gate FIELD_STRUCT_DESC: 42-inch CM drainage pipe through levee 18.0 feet below crown. Flap gate, concrete headwall and spillway on the waterward side. Pumphous on landward side. O&M #: SJR 001 FS Date: 03/26/2013		21.334158°	Y
25	0.76	0.76	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:11103 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Tilted headwall on WS. Partially burrie flap gate FIELD_STRUCT_DESC: 42-inch CM drainage pipe through levee 18.0 feet below crown. Flap gate, concrete headwall and spillway on the waterward side. Pumphous on landward side. O&M #: SJR 001 FS Date: 03/26/2013	-121.334158 ° -12 d	87.937657° 21.334158°	
							1 0 Date: 03/20/2010	DWR ID: DWR_RD04	04_01_f _ 2013_	_38
26	0.78	0.78	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Trees blocking view of slope.	37.937395 ° 3 -121.333883 ° -12 DWR ID: DWR_RD04		Υ
27	0.89	0.89	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	o o DWR ID: DWR_RD04	o o 04 01 f 2012	
28	0.96	0.96	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.		37.935990 ° 21.331600 °	2
29	1.04	1.04	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	o o DWR ID: DWR_RD04	o o 04_01_f _ 2013_	
30	1.08	1.08	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.935358 ° 3 -121.329645 ° -12 DWR ID: DWR_RD04		
31	1.10	1.10	Earthen Levee	Riprap Revetments	WS	M Ma	Inspector Comments: Concrete rubble with rebar should be removed.	o o DWR ID: DWR_RD04	o o 04_01_f _ 2013_	•
32	1.20	1.20	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.934058 ° 3 -121.328188 ° -12 DWR ID: DWR_RD04	21.328188°	Υ

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

M : Acceptable N : Not Inst
M : Minimally Acceptable C : Correct
U : Unacceptable A/W : Accepta

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

		Category	Item	Locati	Ratin	Action/Comment			INO.
		Earthen Levee	Encroachments	LS	M Ma	GA : Garbage Inspector Comments: Old concrete pipes on landside slope should be removed.		end °	Photo 12 Y
1.36	1.36	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.931945 ° -121.327150 °	37.931945 ° -121.327150 °	100
1.57	1.67	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: This section has been degraded due to construction.	-121.327207 °	-121.325933 °	
1.58	1.58	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:12386 EP_NO: 15562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: According to Bob Winter of KSN/LMA representative. Fiber optics cable goes through levee. No sign/indicators found. And photos not taken. FIELD_STRUCT_DESC: 4-inch steel pipe with fiber optics communication cable through levee. Cable Crosses the channel. (Permit No. 15562-1991). The pipe is 34 feet below the levee crown. FS Date: 03/26/2013	37.928718 ° -121.327206 °	37.928718 ° -121.327206 °	39 Y
1.58	1.58	Earthen Levee	Encroachments	LS	A/W Ma	TR : Tree or limb Inspector Comments: Downed tree limb on landside slope and toe.	0	0	15 Y
1.60	1.60	Supplemental	DWR UCIP Field Study	LS		Inspector Comments: FS_ID:12385 EP_NO: 15562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: According to Bob Winter of KSN/LMA representative. Fiber optics cable goes through levee. No sign/indicators found. And photos not taken. FIELD_STRUCT_DESC: 4-inch steel pipe with fiber optics communication cable through levee. Cable Crosses the channel. (Permit No. 15562-1991). The pipe is 34 feet below the levee crown. FS Date: 03/26/2013	37.928497° -121.326990°	37.928497 ° -121.326990 °	40
	Start 3 1.21 1.36 1.57 1.58	3 1.21 1.21 4 1.36 1.36 5 1.57 1.67 6 1.58 1.58	Start End Category  3 1.21 1.21 Earthen Levee  3 1.36 1.36 Earthen Levee  3 1.57 1.67 Earthen Levee  3 1.58 1.58 Supplemental	Start End Category Item  3 1.21 1.21 Earthen Levee Encroachments  4 1.36 1.36 Earthen Trim / Thin Trees  5 1.57 1.67 Earthen Levee Animal Control  6 1.58 1.58 Supplemental DWR UCIP Field Study  7 1.58 1.58 Earthen Levee Encroachments	Start End Category Item * § \$ 1.21	1.21 1.21 Earthen Levee Encroachments LS M Ma  1.36 1.36 Earthen Trim / Thin Trees WS M Ma  1.57 1.67 Earthen Levee Animal Control LS M Ma  1.58 1.58 Supplemental DWR UCIP Field Study En  1.58 1.58 Earthen Levee Encroachments LS A/W Ma	1.21   1.21   Earthen   Encroachments   LS   M   Ma   Inspector Comments: Old concrete pipes on landside slope should be removed.	1.21   1.21   Earthen   Encroachments   LS   M   GA : Garbage   Inspector Comments: Old concrete pipes on landside   Super Not Develope   Super Not Develo	1.21   1.21   Earthen Levee

\* Location LS: Land Side WS : Water Side CR : Crown Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

				Ome 110. 01 0	u	ouq	diri ravor			09/18/2013	vvilloug	Inby
LMR No.	Levee	Mile	Category	Item	Location	Rating ** +	Action/Comment			GPS Latitude/	Longitude	Issue No. Photo
39	1.60		Supplementa	DWR UCIP Field Study		M En	Inspector Comments: FS_ID:11147 EP_NO: 15562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: According to Bob Win representative. Fiber optics cable goes t sign/indicators found. FIELD_STRUCT_DESC: 4-inch steel pip communication cable through levee. Cat channel. (Permit No. 15562-1991). The p below the levee crown. FS Date: 03/26/2013	hrough levoe with fibole Crosse	I/LMA vee. No er optics es the		37.928497 ° 21.326990 °	41
40	1.64	1.65	Earthen Levee	Slope Stability	LS	C Ma	S3 : Repair the levee slope damaged by prevent access where possible.	vehicle tr		37.928118 ° ; -121.326338 ° -12 DWR ID: DWR_RD04	21.326007°	
41	1.65	1.65	Supplementa	I DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:11163 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned crossing. with steel pipe and LS pipe cut. FIELD_STRUCT_DESC: Abandoned 14 pipe. 3.0 feet below levee crown. FS Date: 03/26/2013		capped	37.928090 ° ; -121.326215 ° -1;		42 Y
42	1.67	1.67	Earthen Levee	Trim / Thin Trees	LS		T4 : Trim trees over roadway to at least ground level.	12 feet ab	ove	o o DWR ID: DWR_RD04	0	14 Y
43	1.77	1.77	Earthen Levee	Slope Stability	LS	C Ma	S3 : Repair the levee slope damaged by prevent access where possible. Inspector Comments: This section is und from EIP permit.			37.926740 ° ; -121.324887 ° -1:		10
44	1.81	1.81	Supplementa	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:12387 EP_NO: 6560 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 8-inch pipe thrr 7.0 feet below the crown, chain link fence and motor on the waterward slope. Dambreaker in pipe riser near the landward s No. 6560) FS Date: 03/26/2013	e around <sub>l</sub> aged siph	evee, oump on	DWR ID: DWR_RD04 37.926168 ° : -121.324514 ° -1:	37.926168 ° 21.324514 °	43

\* Location LS: Land Side WS: Water Side CR: Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Mainter

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

						•			00/10/2010	***moag	i io y
LMR No.	Levee	Mile End	Category	Item	Rating  ** +  Location  *	Action/Comment			GPS Latitude/	Longitude End	Issue No. Photo
45	1.81	1.81	Supplementa	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:11187 EP_NO: 6560 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 8-inch pipe thro 7.0 feet below the crown, chain link fenc and motor on the waterward slope. Dam breaker in pipe riser near the landward s No. 6560) FS Date: 03/26/2013	e around aged sipl	levee, pump non	37.926168 ° 3.121.324514 ° -12		44 Y
46	1.84	1.85	Earthen Levee	Trim / Thin Trees	WS M	T1 : Trim trees to at least five feet above	ground I			37.925735 ° 21.324153 °	21
47	1.98	1.98	Earthen Levee	Encroachments	WS U En	TR : Tree or limb Inspector Comments: Downed tree limb slope.	on water	ward -	37.924082 ° 3.121.323178 ° -12		22 Y
48	1.98	1.98	Earthen Levee	Trim / Thin Trees	WS M	T1 : Trim trees to at least five feet above	ground I			37.924055 ° 21.323195 °	99 Y
49	1.99	1.99	Earthen Levee	Encroachments	WS M Ma	TR : Tree or limb Inspector Comments: Downed tree limbs slope.	s on wate	erside -	37.923817 ° 3.121.323130 ° -12		Υ
50	2.01	2.01	Earthen Levee	Slope Stability	WS M	S2 : Repair the levee slope damaged by prevent access where possible. Inspector Comments: Slope damage due			o o DWR ID: DWR_RD04	o o 04 01 f 2013	16 Y
51	2.08	2.08	Earthen Levee	Trim / Thin Trees	WS M	T1 : Trim trees to at least five feet above	ground I	level.	o o DWR ID: DWR_RD04	0	13
52	2.34	2.34	Earthen Levee	Riprap Revetments	WS M	Inspector Comments: Remove rebar from concrete rip rap on waterward slope.	m existinç		37.920488 ° 3 121.318630 ° -12 DWR ID: DWR_RD04		Υ

\* Location LS : Land Side WS : Water Side CR : Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Mainter

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.21
End Levee Mile	0.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the site.	

SJR2013\_RD0404U01RM40.86\_2.jpg

Levee Mile Report Line	6
Start Levee Mile	0.30
End Levee Mile	0.30
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking northwest at toe erosion on waterside.

richard\_f\_20130918\_024.jpg

Levee Mile Report Line	6	
Start Levee Mile	0.30	
End Levee Mile	0.30	
Location	Water Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
Looking east at erosion on slope and toe of levee.		

richard\_f\_20130918\_025.JPG







\* Location LS : Land Side WS : Water Side CR : Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Mainter

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	6		
Start Levee Mile	0.30		
End Levee Mile	0.30		
Location	Water Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
Looking south at erosion on waterward slope. 2013			

6
0.30
0.30
Water Side
Earthen Levee
Erosion / Bank Caving

Looking south at erosion on waterward slope.

richard\_f\_20130919\_438.JPG

richard\_f\_20130919\_437.JPG

Levee Mile Report Line	7
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking at the erosion sit	te from upstream.







Location LS: Land Side WS : Water Side CR : Crown

SJR2013\_RD0404U01RM40.98\_2.jpg

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monite : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	8	
Start Levee Mile	0.44	
End Levee Mile	0.44	
Location	Crown	
Category	Earthen Levee	
Item	Animal Control	
Looking at rodent hole on levee crown.		
richard_f_20130918_003.JPG		
Levee Mile Report Line 8		

Levee Mile Report Line	8	
Start Levee Mile	0.44	
End Levee Mile	0.44	
Location	Crown	
Category	Earthen Levee	
Item	Animal Control	
Looking at partially grouted radent halo on layer		

Looking at partially grouted rodent hole on levee crown

richard\_f\_20130919\_439.JPG

richard_f_20130919_439.JPG		
Levee Mile Report Line	8	
Start Levee Mile	0.44	
End Levee Mile	0.44	
Location	Crown	
Category	Earthen Levee	
Item	Animal Control	
Looking at one of several rodent holes on levee crown.		







\* Location LS : Land Side WS : Water Side CR : Crown

richard\_f\_20130919\_440.JPG

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	9	
Start Levee Mile	0.45	
End Levee Mile	0.45	
Location	Water Side	
Category	Earthen Levee	
Item	Vegetation	
Looking northwest at bamboo on waterside toe.		

richard\_f\_20130918\_022.jpg

Levee Mile Report Line	9
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at bamboo on waterward slope and toe.

richard\_f\_20130918\_023.JPG

Levee Mile Report Line	9
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking west at bamboo	on waterward slope.

richard\_f\_20130919\_441.JPG







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	0.48
End Levee Mile	0.48
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
A closer view at the site.	Note the protected bank

downstream and upstream of the erosion.

SJR2013\_RD0404U01RM41.11\_2.jpg

Levee Mile Report Line	12
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Overview of levee landside

UCIP\_6298.jpg

Levee Mile Report Line	15
Start Levee Mile	0.60
End Levee Mile	0.62
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion. Note the slumping at	

upper slope.

SJR2013\_RD0404U01RM41.22\_1.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study
LS- steel intake structue	

UCIP\_6510.jpg

Levee Mile Report Line	22
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at wooden boards on landward slope.

richard\_f\_20130918\_004.JPG

Levee Mile Report Line	23	
Start Levee Mile	0.75	
End Levee Mile	0.75	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking southeast at elderberry on landside slope.		







\* Location LS : Land Side WS : Water Side CR : Crown

richard\_f\_20130918\_005.jpg

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	24	
Start Levee Mile	0.76	
End Levee Mile	0.76	
Location	Land Side	
Category	Supplemental	
Item	DWR UCIP Field Study	
LS- pumping plant over large concrete riser		

LS- pumping plant over large concrete riser

UCIP\_6497.jpg

Levee Mile Report Line	26
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southeast at dense trees on landward slope and toe.

richard\_f\_20130919\_442.JPG

Levee Mile Report Line	31
Start Levee Mile	1.10
End Levee Mile	1.10
Location	Land Side
Category	Earthen Levee
Item	Riprap Revetments

Looking southwest at concrete rubble with rebar on waterward slope.

richard\_f\_20130919\_443.JPG







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable

M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

: Corrected:
: Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	32	
Start Levee Mile	1.20	
End Levee Mile	1.20	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking southeast at overhanging trees on landside slope.		

richard\_f\_20130918\_021.JPG

Levee Mile Report Line	33
Start Levee Mile	1.21
End Levee Mile	1.21
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at old broken concrete pipes on landward slope and toe.

richard\_f\_20130919\_444.JPG

Levee Mile Report Line	36
Start Levee Mile	1.58
End Levee Mile	1.58
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Aeriel Photo @HLM=1.5791: No sign posts/markers found.

UCIP\_6515.jpg







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

37
1.58
1.58
Land Side
Earthen Levee
Encroachments
on landside slope.

richard\_f\_20130918\_011.JPG

Levee Mile Report Line	41
Start Levee Mile	1.65
End Levee Mile	1.65
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

LS- concrete standpipe on levee slope

UCIP	6520.jpg

Levee Mile Report Line	42
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking east at tree on la levee crown.	andside overhanging







\* Location

LS: Land Side

WS: Water Side

CR: Crown

richard\_f\_20130918\_009.JPG

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	42	
Start Levee Mile	1.67	
End Levee Mile	1.67	
Location	Land Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking north at trimmed tree on landward		

slope.(Spring 2013)

richard\_f\_20130918\_010.JPG

Levee Mile Report Line	45
Start Levee Mile	1.81
End Levee Mile	1.81
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

WS- slanted pump, pipe, and concrete steps on levee slope.

UCIP\_6523.jpg

<u>-</u>		
Levee Mile Report Line	47	
Start Levee Mile	1.98	
End Levee Mile	1.98	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking south at broken tree branch on waterward shoulder and slope.		

richard\_f\_20130918\_017.JPG







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

itable (

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	47	
Start Levee Mile	1.98	
End Levee Mile	1.98	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking southwest at fallen tree limb on waterward slope. 2013		

richard\_f\_20130919\_451.JPG

Levee Mile Report Line	48
Start Levee Mile	1.98
End Levee Mile	1.98
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at dense trees on waterside slope.

richard\_f\_20130918\_020.JPG

Levee Mile Report Line	49
Start Levee Mile	1.99
End Levee Mile	1.99
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at downed tree on waterside slope.

richard\_f\_20130918\_019.jpg







\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	50	
Start Levee Mile	2.01	
End Levee Mile	2.01	
Location	Water Side	
Category	Earthen Levee	
Item	Slope Stability	
Looking southwest at slope damage due to foot traffic.		

richard\_f\_20130919\_452.JPG

50
2.01
2.01
Water Side
Earthen Levee
Slope Stability

Looking west at slope damage due to foot traffic.

richard\_f\_20130919\_453.JPG

IICIAIU_1_20130919_455.3FG	
Levee Mile Report Line	52
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Earthen Levee
Item	Riprap Revetments
Looking southwest at cor	ncrete rip rap with rebar.
richard_f_20130918_018.JPG	







\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### **Unit Cover Sheet**

### Fall 2013 Levee Inspection Results

## **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles
Unit No. 02 French Camp Slough	Right	1.76

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/10/2013 - 04/10/2013		09/18/2013 - 09/18/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Bob Winter KSN		Bob Winter KSN	

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile	Category	Item	** + Location	Action/Comment	GPS Latitude/Longitude Issue No.
Start End	Category	item	ng +	Action Comment	Start End Photo
1 0.00 0.00	Supplementa	DWR UCIP Field Study	LS M En	Inspector Comments: FS_ID:10947 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: FIELD_STRUCT_DESC: 12-inch pipe, 5 feet below the levee crown. Date of O&M: March 1963. O&M #: SJR 001 FS Date: 03/27/2013	0.000000 ° 0.000000 ° 17 0.000000 ° 0.000000 °
					DWR ID: DWR_RD0404_02_f _ 2013_17
<sup>2</sup> 0.00 1.74	Earthen Levee	Crown Surface / Depressions / Rutting	CR M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Several pot holes noticed on the crown.	37.920308 ° 37.917383 ° 7 -121.318308 ° -121.292062 °
					DWR ID: DWR_RD0404_02_s _ 2012_7
3 0.11 0.11	Earthen Levee	Erosion / Bank Caving	WS M	E2 : Schedule repair of erosion site prior to the next inspection.	37.919207 ° 37.919207 ° 75 -121.316852 ° -121.316852 ° Y DWR ID: DWR_RD0404_02_s_2012_75
4 0.12 0.15	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps. Inspector Comments: Remove three dead trees on waterside slope and toe.	37.919090 ° 37.918753 ° 74 -121.316733 ° -121.316440 ° Y
5 0.19 0.19	Earthen Levee	Encroachments	LS C Ma	TR : Tree or limb Inspector Comments: Small tree limbs on landside slope.	37.918375 ° 37.918375 ° 15 -121.316008 ° -121.316008 ° DWR ID: DWR_RD0404_02_s_2013_15
6 0.19 0.35	Earthen Levee	Animal Control	LS A/V Ma	V A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.919543 ° 37.918935 ° 3 -121.311432 ° -121.313335 ° DWR ID: DWR_RD0404_02_s_2012_3
7 0.23 0.23	Earthen Levee	Encroachments	WS M	<u> </u>	37.918217 ° 37.918217 ° 73 -121.315232 ° -121.315232 ° DWR ID: DWR_RD0404_02_s_2012_73
8 0.24 0.24	Earthen Levee	Encroachments	WS M En	TR : Tree or limb Inspector Comments: Broken tree limb on waterward slope.	o o 2 o Y  DWR ID: DWR_RD0404_02_f_2013_2
9 0.29 0.32	Earthen	Trim / Thin	WS U	T5 : Tree stumps.	37.918447 ° 37.918693 ° 72
· 0.29 0.32	Levee	Trees	Ma		-121.314213 ° -121.313780 ° Y
					DWR ID: DWR_RD0404_02_s _ 2012_72
10 0.36 0.36	Earthen Levee	Trim / Thin Trees	WS U Ma	T5 : Tree stumps. Inspector Comments: Remove dead tree on waterside slope	37.919025 ° 37.919025 ° 71 -121.313245 ° -121.313245 ° Y
					DWR ID: DWR_RD0404_02_s _ 2012_71
11 0.41 0.44	Earthen Levee	Trim / Thin Trees	WS U Ma	T5 : Tree stumps. Inspector Comments: Remove dead trees on waterside slope.	37.919425 ° 37.919508 ° 70 -121.312400 ° -121.311965 ° Y
				p -	DWR ID: DWR_RD0404_02_s _ 2012_70

* Location	
LS : Land Side	
WS : Water Side	
CD . Craum	

\*\* Rating

A : Acceptable

M : Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Mainter

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

							,			03/10/2010	vvilloug	,~ <i>y</i>
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitud	e/Longitude End	Issue No. Photo
12	0.48	0.48	Earthen Levee	Animal Control	LS A	A/W Ma	A3 : No rodents visible, but rodent burrow backfill and compact or grout burrows.	ws visible		37.919525 ° -121.311193 ° - DWR ID: DWR_RD	37.919525 ° -121.311193 ° -00404_02_s _ 2012	
13	0.48	0.48	Earthen Levee	Encroachments			TR : Tree or limb Inspector Comments: Remove dead tree on waterward slope.	and tree	limbs	37.919588 ° -121.311193 ° -		Υ
14	0.51	0.51	Earthen Levee	Crown Surface / Depressions / Rutting		M Ma	C2 : Repair depressions or ruts in the cro	own or slo		-121.310635°-		
15	0.73	0.73	Supplemental	DWR UCIP Field Study	CR		Inspector Comments: FS_ID:10908 EP_NO: 3340A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - Not working for 5 yea staff- Wooden Walkway; Concrete steps siphon breaker FIELD_STRUCT_DESC: 6-inch pipe thre 2.0 feet below the crown. Pump on pile s stream. Shut-off valve and siphon breake waterward shoulder. Timber walkway on slope. One CM cutoff wall. (Permit No. 3 FS Date: 03/27/2013	- Damage ough the structure it er on the the wate	club ed levee, n	37.919336 ° -121.306782 ° -		18 Y
16	0.74	0.74	Supplemental	DWR UCIP Field Study	CR		Inspector Comments: FS_ID:10883 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker on cor slope. Cap of siphon breaker is missing. was working during field survey.Needs to breaker cap. FIELD_STRUCT_DESC: 12-inch pipe, 5 levee crown. Pump on landside of the leveraker on concrete riser on WS slope.E March 1963. O&M #: SJR 001 FS Date: 03/27/2013	Pipe and put siph feet belowee. Siph	er on ws I pump on ow the one	37.919308° -121.306714° -		Y

\* Location LS: Land Side WS: Water Side CR: Crown \*\* Rating

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+ Issue Type
Ma : Mainter

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

	Inspection Start/End	Inspector				
Unit No. 0	2 French Ca	mp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby
Levee Mile Start End Category Item	Rating ** + Location *	Action/Comment			GPS Latitude/	Longitude Issue No. End Photo
17 0.74 0.74 Supplemental DWR UC Field Stud		Inspector Comments: FS_ID:10946 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Siphon breaker on co slope. Cap of siphon breaker is missing was working during field survey.Needs to breaker cap. FIELD_STRUCT_DESC: 12-inch pipe, 5 levee crown. Pump on landside of the le breaker on concrete riser on WS slope.I March 1963. O&M #: SJR 001 FS Date: 03/27/2013	Pipe and put siph of feet belower. Siph	er on ws d pump non ow the none	37.919308 ° 3.121.306714 ° -12	
<sup>18</sup> 0.74 0.74 Supplemental DWR UC Field Stud		Inspector Comments: FS_ID:10945 EP_NO: 4448 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete stairway on	waterwar		37.919308° 3 121.306714° -12	7.919308 ° 21 11.306714 °

breaker cap missing.

Not found. Pump was working during field survey. Siphon

						FIELD_STRUCT_DESC: 18-inch pipe through the levee, 9.3 feet below the crown, pump on the landward side. Siphon breaker in concrete well on the waterward shoulder. Two CM cutoff walls. (Permit No. 4448) FS Date: 03/27/2013	DWR ID: DWR_RD0404_02_f _ 2013_21
19	0.74	0.74	Earthen Levee	Encroachments	LS A/W En	PR : Prunings	37.919178 ° 37.919178 ° 58 -121.306468 ° -121.306468 ° DWR ID: DWR_RD0404_02_s_2012_58
20	0.74	0.74	Earthen Levee	Encroachments	LS C En	TR : Tree or limb Inspector Comments: Downed tree limb on landside slope.	37.919205 ° 37.919205 ° 5 -121.306495 ° -121.306495 ° DWR ID: DWR_RD0404_02_s_2012_5
21	0.80	0.80	Earthen Levee	Trim / Thin Trees	WS M	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Remove dead trees from waterside shoulder and slope.	37.918695 ° 37.918695 ° 57 -121.305935 ° -121.305935 °
22	0.82	0.91	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.918320 ° 37.917162 ° 4 -121.305740 ° -121.305285 ° DWR ID: DWR_RD0404_02_s_2012_4
23	0.89	0.89	Earthen Levee	Trim / Thin Trees	WS N Ma	T5 : Tree stumps. Inspector Comments: Remove dead tree on waterside shoulder and slope.	37.917280 ° 37.917280 ° 68 -121.305365 ° -121.305365 ° Y
24	1.13	1.13	Earthen Levee	Encroachments	WS M Ma	EQ: Equipment Inspector Comments: Abandoned pump stand in channel and 3-4" steel pipe below flood elevation should be removed.	37.916340 ° 37.916340 ° 66 -121.301898 ° -121.301898 ° Y

\* Location LS: Land Side WS : Water Side CR : Crown \* Rating

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+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

LMR	Levee	Mile			Local *	2	GPS Latitud	de/Longitude	Issue No.
No.	Start	End	Category	Item ** Action/		Action/Comment	Start	End	Photo
25	1.13	1.18	Earthen Levee	Animal Control	LS A/\	V A1 : Exterminate rodents and backfill and compact or grout burrows.	37.916347 ° -121.301887 ° DWR ID: DWR_R	37.916497 ° -121.301095 ° <sup>D0404</sup> _02_s _ 2012	
26	1.13	1.13	Earthen Levee	Trim / Thin Trees	LS M		37.916337 ° -121.301888 °	37.916337 ° -121.301888 °	
								D0404_02_s _ 2012_	
27	1.15	1.15	Earthen Levee	Erosion / Bank Caving	LS M		o o	o o D0404_02_f _ 2013_	Y
28	1.17	1.17	Earthen Levee	Encroachments	LS A/\	V TR : Tree or limb Inspector Comments: Broken limb on landward slope.	37.916520 ° -121.301022 °	37.916520 °	16
29	1.18	1.18	Earthen Levee	Encroachments	LS M		37.916472 ° -121.301188 °	37.916472 °	65
30	1.23	1.23	Earthen Levee	Trim / Thin Trees	WS N		-121.300418 °	37.917035 ° -121.300418 ° <sup>D0404</sup> _02_s _ 2012	Υ
31	1.23	1.23	Earthen Levee	Animal Control	WSA/\	V A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.  Inspector Comments: Several rodent holes on waterside shoulder and slope. District grouting holes.	37.917042 ° -121.300400 °		
								D0404_02_s _ 2012_	
32	1.35	1.35	Earthen Levee	Animal Control	LS M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.918214 ° -121.298656 ° DWR ID: DWR_R	37.918214 ° -121.298656 ° D0404_02_f _ 2012_	
33	1.44	1.44	Earthen Levee	Trim / Thin Trees	WS N		37.918433 ° -121.297213 °	37.918433 ° -121.297213 °	
							DWR ID: DWR_R	D0404_02_s _ 2012_	_62
34	1.47	1.52	Earthen Levee	Encroachments	LS M		37.918440 ° -121.296707 °	37.918517 ° -121.295763 °	6 Y
							DWR ID: DWR_R	D0404_02_s _ 2012_	_6
35	1.47	1.53	Earthen Levee	Slope Stability	WSA/\	V S1 : Repair slope instability. Inspector Comments: There are several foot traffic erosion sites along the waterside slope.	37.918490 ° -121.296650 °		Y
								D0404_02_s _ 2012_	
36	1.51	1.51	Earthen Levee	Animal Control	LS M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	-121.295980 °	37.918535 ° -121.295980 ° D0404_02_s _ 2012_	
37	1.53	1.53	Earthen Levee	Slope Stability	WSA/\	V S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.918529 ° -121.295684 °	37.918529 °	9 Y

\* Location LS : Land Side WS : Water Side CR : Crown \* Rating

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+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

				7111C 140. 02 1 1C		- Cui	iip clougii	rugiit	1.70	09/18/2013	Willoug	nby
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitude	/Longitude	Issue No. Photo
38	1.55	1.55	Earthen Levee	Encroachments	WS	M En	EQ: Equipment Inspector Comments: Abandoned pump st should be removed and 3" galvanized pipe slope. Pipe was dug out by unknown perso trench (hole) on waterside slope. Trench (the person of the pers	e on wate on. Left i hole) she	erside major ould be	37.918397° -121.295110° -1		60 Y
39	1.56	1.56	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:10853 EP_NO: 3340 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and capped found on WS. Damaged air-valve/siphon b on LS.Gully formed due to leaky pipe. A pu found on LS but it needs to be verified by I this is associated with this crossing. FIELD_STRUCT_DESC: Abandoned and GI pipe through levee, 1 feet below the cro structure in stream. damaged siphon breal the landward slope. (Permit No. 3340) FS Date: 03/27/2013	oreaker f ump hou LMA who capped own; pile	pipe ound se ether 3-inch	37.918411° -121.295128° -1	37.918411° 21.295128°	22 Y
40	1.76	1.76	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above g	ground le		37.917302 ° -121.291778 ° -1	21.291778°	Υ
41	1.76	1.76	Earthen Levee	Encroachments	WS	M Ma	GA : Garbage Inspector Comments: Garbage on waterwa	ard slope	<b>9</b> .	o o DWR ID: DWR_RD0	° ° 404_02_f _ 2013_	Y
42	1.76	1.76	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:12426 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft concre on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investig crossing. FIELD_STRUCT_DESC: 2 of 2. 42-inch-di pipelines under the levee. Pipes cross und FS Date: 03/27/2013	gate on i	found	37.917284° -121.291740°-1	21.291740°	
										DWR ID: DWR_RD0	4U4_U2_f _ 2013_	23

\* Location
LS: Land Side
WS: Water Side
CR: Crown

\*\* Rating

A : Acceptable
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U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Mainter

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

		JIIIL NO. UZ FIE	ilicii Ca	inp Slough	Rigit	1.70	09/18/2013	Willoug	hby
Levee Mile Start End	Category	Item	Rating ** + Location *	Action/Comment			GPS Latitude/L	ongitude End	Issue No. Photo
43 1.76 1.76	S Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:10847 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft con on LS.Needs a sign post.Bob Winter fro KSN(representative of RD 404) will inve crossing. FIELD_STRUCT_DESC: 2 of 2. 42-inch pipelines under the levee. Pipes cross u FS Date: 03/27/2013	om stigate on n-diameter	this	37.917284 ° 3 -121.291740 ° -12		24 Y
44 1.76 1.76	S Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:10846 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft con on LS.Needs a sign post.Bob Winter fro KSN(representative of RD 404) will inve crossing. FIELD_STRUCT_DESC: 1 of 2. 42-inch pipelines under the levee. Pipes cross u FS Date: 03/27/2013	om stigate on n-diameter	this	37.917284 ° 3' -121.291740 ° -12	1.291740°	
45 1.76 1.76	Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:10845 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2. 42-inch pipelines under the levee. Pipes cross u FS Date: 03/27/2013			37.917284 ° 3 -121.291740 ° -12	7.917284 ° 1.291740 °	26
46 1.76 1.76	Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:10844 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft con on LS.Needs a sign post.Bob Winter fr KSN(representative of RD 404) will inve crossing. FIELD_STRUCT_DESC: 1 of 2. 42-inch pipelines under the levee. Pipes cross u FS Date: 03/27/2013	om stigate on n-diameter	this	37.917284 ° 3' -121.291740 ° -12	1.291740°	

Location	
LS : Land Side	
WS : Water Side	
CR : Crown	

\*\* Rating

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+ Issue Type
Ma: Mainter

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.11
End Levee Mile	0.11
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Lookng west at waterside	e slope erosion.

richard\_f\_20130918\_052.jpg

Levee Mile Report Line	4
Start Levee Mile	0.12
End Levee Mile	0.15
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at dead trees on waterside slope.

richard\_f\_20130918\_050.jpg

Levee Mile Report Line	4
Start Levee Mile	0.12
End Levee Mile	0.15
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southwest at dea slope.	ad trees on waterside







\* Location
LS: Land Side
WS: Water Side
CR: Crown

richard\_f\_20130918\_051.jpg

\*\* Rating

A : Acceptable
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U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	Q
<u>'</u>	
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at bro waterward shoulder and	

richard\_f\_20130919\_458.JPG

Levee Mile Report Line	9				
Start Levee Mile	0.29				
End Levee Mile	0.32				
Location	Water Side				
Category	Earthen Levee				
Item	Trim / Thin Trees				
Lackna aget at dood trae on wateraide alone					

Lookng east at dead tree on waterside slope.

richard\_f\_20130918\_049.jpg

1		
Levee Mile Report Line	10	
Start Levee Mile	0.36	
End Levee Mile	0.36	
Location	Water Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking northwest at dead tree on waterside slope.		

richard\_f\_20130918\_048.jpg







\* Location

LS: Land Side

WS: Water Side

CR: Crown

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+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	11		
Start Levee Mile	0.41		
End Levee Mile	0.44		
Location	Water Side		
Category	Earthen Levee		
Item Trim / Thin Trees			
Looking south at dead tree on waterward slope.			

richard\_f\_20130919\_457.JPG

Levee Mile Report Line	13
Start Levee Mile	0.48
End Levee Mile	0.48
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at downed tree limb on waterside slope.

richard\_f\_20130918\_047.jpg

Levee Mile Report Line	13		
Start Levee Mile	0.48		
End Levee Mile	0.48		
Location	Water Side		
Category	Earthen Levee		
Item Encroachments			
Looking south at dead tree on waterward slope.			

richard\_f\_20130919\_456.JPG







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#### Flood Control Project Maintenance Levee Inspections

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.73
End Levee Mile	0.73
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
WS- pump on steel struc walkway	ture and wooden
UCIP 6163.jpg	

Levee Mile Report Line	16
Start Levee Mile	0.74
End Levee Mile	0.74
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

WS- overview of WS steep levee slope.

UCIP_6159.jpg
---------------

UCIP_6159.jpg		
Levee Mile Report Line	23	
Start Levee Mile	0.89	
End Levee Mile	0.89	
Location	Water Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking northwest at dead tree on waterside slope.		







\* Location

LS: Land Side

WS: Water Side

CR: Crown

richard\_f\_20130918\_046.jpg

\*\* Rating

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N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	24	
Start Levee Mile	1.13	
End Levee Mile	1.13	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking southwest at wooden pump stand in channel.		

richard\_f\_20130918\_040.jpg

Levee Mile Report Line	24	
Start Levee Mile	1.13	
End Levee Mile	1.13	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking south at 4.6" nine on waterside slone		

Looking south at 4-6" pipe on waterside slope.

richard\_f\_20130918\_041.jpg

Levee Mile Report Line	26
Start Levee Mile	1.13
End Levee Mile	1.13
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northeast at dense vegetation inside fenced area near pump station on landside toe.

richard\_f\_20130918\_042.jpg







Location LS: Land Side WS : Water Side CR : Crown

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N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	26	
Start Levee Mile	1.13	
End Levee Mile	1.13	
Location	Land Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking east at dense vegetation near pump station on landside toe.		

richard\_f\_20130918\_043.jpg

Levee Mile Report Line	26
Start Levee Mile	1.13
End Levee Mile	1.13
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northeast at dense vegetation on landward toe. (Spring 2013)

richard\_f\_20130918\_044.JPG

Levee Mile Report Line	26	
Start Levee Mile	1.13	
End Levee Mile	1.13	
Location	Land Side	
Category	Earthen Levee	
Item Trim / Thin Trees		
Looking north at dense vegetation on landward		

toe around propane tank.

richard\_f\_20130918\_045.JPG







+ Issue Type

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#### Flood Control Project Maintenance Levee Inspections

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	27	
Start Levee Mile	1.15	
End Levee Mile	1.15	
Location	Land Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
Looking southeast at dumpster and landside erosion on landward toe.		

richard\_f\_20130919\_455.JPG

Levee Mile Report Line	30
Start Levee Mile	1.23
End Levee Mile	1.23
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at several dead trees on waterside slope.

richard\_f\_20130918\_039.jpg

33		
1.44		
1.44		
Water Side		
Earthen Levee		
Trim / Thin Trees		
Looking east at dead tree on waterside slope.		







\* Location

LS: Land Side

WS: Water Side

CR: Crown

richard\_f\_20130918\_038.jpg

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	34		
•	· .		
Start Levee Mile	1.47		
End Levee Mile	1.52		
Location	Land Side		
Category Earthen Levee			
Item Encroachments			
Fence at landside shoulder from LM 1.47 to 1.52			

richard\_f\_20130918\_031.jpg

Levee Mile Report Line	34	
Start Levee Mile	1.47	
End Levee Mile	1.52	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
l a claire a contra a catalante de la contra de la contra de ida.		

Looking northeast at fence poles on landside shoulder.

richard\_f\_20130918\_032.JPG

Levee Mile Report Line	35	
Start Levee Mile	1.47	
End Levee Mile	1.53	
Location	Water Side	
Category	Earthen Levee	
Item	Slope Stability	
Looking south at one of several foot traffic		

erosion on waterside slope.

richard\_f\_20130918\_028.jpg







Location LS: Land Side WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monite : Corrected : Acceptable but Monitor & Maintain + Issue Type

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#### Flood Control Project Maintenance **Levee Inspections**

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	35	
Start Levee Mile	1.47	
End Levee Mile	1.53	
Location	Water Side	
Category Earthen Levee		
Item	Slope Stability	
Looking southeast at renaired sites on waterward		

slope.

richard\_f\_20130918\_029.JPG

Levee Mile Report Line	37
Start Levee Mile	1.53
End Levee Mile	1.53
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking east at repaired site on waterward slope.

richard\_f\_20130918\_033.JPG

Levee Mile Report Line	38	
Start Levee Mile	1.55	
End Levee Mile	1.55	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking south at 3" pipe on waterside slope.		

richard\_f\_20130918\_035.jpg







Location LS: Land Side WS : Water Side CR : Crown

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monit : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	38	
Start Levee Mile	1.55	
End Levee Mile	1.55	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
Looking southwest at wooden pump stand in channel.		

richard\_f\_20130918\_036.jpg

Levee Mile Report Line	38
Start Levee Mile	1.55
End Levee Mile	1.55
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at repaired site on waterward slope.

richard\_f\_20130918\_037.JPG

Levee Mile Report Line	39
Start Levee Mile	1.56
End Levee Mile	1.56
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

WS- soil erosion and gully formation due to leaky pipe

UCIP\_6150.jpg







\* Location LS : Land Side WS : Water Side CR : Crown \*\* Rating

A : Acceptable
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N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

## Levee Inspection Report By Mile - Fall 2013

# Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	09/18/2013 09/18/2013	Richard Willoughby

Levee Mile Report Line	40	
Start Levee Mile	1.76	
End Levee Mile	1.76	
Location	Water Side	
Category	Earthen Levee	
Item	Trim / Thin Trees	
Looking west at overhanging tree on waterside slope.		

richard\_f\_20130918\_034.JPG

Levee Mile Report Line	41
Start Levee Mile	1.76
End Levee Mile	1.76
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at garbage on waterward slope.

richard\_f\_20130919\_454.JPG

Levee Mile Report Line	43
Start Levee Mile	1.76
End Levee Mile	1.76
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
LS- 7' x 14' concrete vault.	

LS: Land Side WS : Water Side CR : Crown

UCIP\_6147.jpg

Location

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain





